

FORM PTO-1449A

## INFORMATION DISCLOSURE CITATION

Attorney Docket:  
4208-4145Serial No.:  
10/660,545Applicant:  
Arto PALIN, et al.Filing Date:  
September 12, 2003Group Art Unit:  
2681

## U.S. PATENT / PUBLICATION DOCUMENTS

Examiner Initial		Patent/Publication Number	Publication/Issue Date	Name	Filing Date
JA	1.	2003/0100288 A1	5/29/03	Tomlinson, Jr., et al.	
JA	2.	2003/0137966 A1	7/24/03	Odman, et al.	
JA	3.	2003/0148767 A1	8/7/03	Sugaya, et al.	
JA	4.	2001/0055356 A1	12/27/01	Davies	
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## FOREIGN PATENT DOCUMENTS

Examiner Initial		Patent Number	Publication Date	Country	Copy Filed	Translation
JA	15.	1 185 033 A1	3/6/02	EP	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
JA	16.	2 287 383	9/13/95	GB	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
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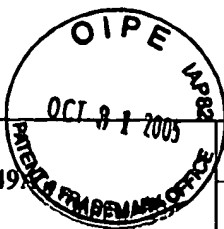
Examiner

/Joel Ajayi/

Date Considered

12/08/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609.  
 Draw line through citation if not in conformance and not considered.  
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FORM PTO-1449

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2661

## U.S. PATENT / PUBLICATION DOCUMENTS

Examiner Initial		Patent/Publication Number	Publication/Issue Date	Name	Filing Date
JA	1.	2004/0066762 A1	4/2004	Alastalo	
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## FOREIGN PATENT DOCUMENTS

Examiner Initial		Patent Number	Publication Date	Country	Copy Filed	Translation
JA	15.	WO 03/084146 A1	10/2003	WIPO	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
JA	16.	WO 02/21746 A2	3/2002	WIPO	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
JA	17.	EP 0999717 A2	5/2000	EPO	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
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Examiner

/Joel Ajayi/

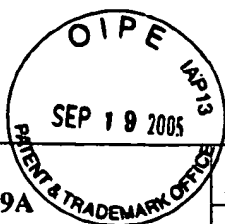
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**RELATED CASE  
SUBMISSION**Attorney Docket:  
4208-4145Serial No.:  
10/660,545Applicant:  
Arto PALIN, et al.Filing Date:  
September 12, 2003Group Art Unit:  
2661**RELATED PENDING APPLICATIONS**

Examiner Initial		Serial No.	Filing Date	Inventor(s)	Publication No. or Patent No. (if applicable)	Publication Date or Issue Date (if applicable)
JA	1	10/694,881	10/29/03	Palin, et al.	2005-0097408 A1	5/5/05
JA	2	10/870,060	6/18/04	Kossi, et al.		
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Examiner /Joel Ajayi/			Date Considered 12/08/2006			



<b>FORM PTO-1449A</b> <b>INFORMATION DISCLOSURE CITATION</b>	Attorney Docket: 4208-4145	Serial No.: 10/660,545
	Applicant: PALIN, et al.	
	Filing Date: September 12, 2003	Group Art Unit: 2661

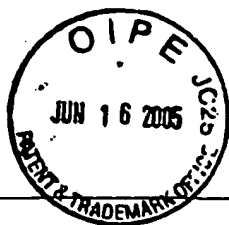
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Examiner Initial		Patent/Publication Number	Publication/Issue Date	Name	Filing Date
JA	1.	5,307,370	4/26/1994	Eness	
JA	2.	6,172,673	1/9/2001	Lehtinen et al.	
JA	3.	6,507,734	1/14/2003	Berger et al.	
JA	4.	2002/0065099	5/30/2002	Bjorndahl	
JA	5.	2002/0080866	6/27/2002	Bouet, et al.	
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**FOREIGN PATENT DOCUMENTS**

Examiner Initial		Patent Number	Publication Date	Country	Copy Filed	Translation
JA	15.	1274194 A1	1/8/03	EP	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
JA	16.	10140446 A1	3/6/03	DE	<input checked="" type="checkbox"/> Yes	Abstract
JA	17.	WO 99/38302	7/29/99	PCT	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
JA	18.	WO 99/41876	08/19/1999	PCT	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
JA	19.	WO 01/45319	06/21/2001	PCT	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	20.				<input type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No

Examiner <b>/Joel Ajayi/</b>	Date Considered <b>12/08/2006</b>
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**RELATED CASE  
SUBMISSION**Attorney Docket:  
4208-4145Serial No.:  
10/660,545Applicant:  
Arto PALIN, et al.Filing Date:  
September 12, 2003Group Art Unit:  
2681**RELATED PENDING APPLICATIONS**

Examiner Initial		Serial No.	Filing Date	Inventor(s)	Publication No. or Patent No. (if applicable)	Publication Date or Issue Date (if applicable)
JA	1	10/660,544	9/12/03	Palin, et al.	2005-0059345 A1	3/17/05
JA	2	10/660,549	9/12/03	Salokannel, et al.	2005-0058107-A1	3/17/05
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**FORM PTO-1449**

**INFORMATION DISCLOSURE**

**U.S. PATENT DOCUMENTS**

Attorney Docket: 4208-4145		Serial No.: 10/660,545	
Applicant: Arto PALIN, et al.			
Filing Date: September 12, 2003		Group Art Unit: 2661	

Examiner Initial		Patent Number	Publication Date	Name	Class	Sub-Class	Filing Date
JA	1	5,677,927	10/14/1997	Fullerton et al.			
JA	2	5,687,169	11/11/1997	Fullerton			
JA	3	6,549,567 B1	04/15/2003	Fullerton			
JA	4	6,571,089 B1	05/27/2003	Richards et al.			
JA	5	6,587,949 B1	07/01/2003	Steinberg			
JA	6	2003/0063196 A1	04/03/2003	Palatov et al.			
JA	7	2001/0049262 A1	12/06/2001	Lehtonen			
JA	8	2002/0073269 A1	06/13/2002	Kawashima et al.			
JA	9	2003/0032422	2/13/03	Wynbeek			
JA	10	2003/0078037	4/24/03	Auckland, et al.			

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)**

JA	11	The Bluetooth Special Interest Group, Specification of The Bluetooth System, Vol. 1 & Vol. 2, Core and Profiles: Version 1.1, February 22, 2001.
JA	12	O'Donnell et al., "An Integrated, Low Power, Ultra-Wideband Transceiver Architecture for Low-Rate, Indoor Wireless Systems", Dept. of Electrical Engineering & Computer Science, University of California, Berkeley, Berkeley, CA, 8 pgs.
JA	13	P. I. I. Withington, et al., "An Impulse Radio Communication System", "Proceedings of the International Conference on Ultra-Wideband, Short Pulse Electromagnetics", (ISBN 0-306-44530-1), October 19, 1992, pgs. 113-200.
JA	14	J. Bray and C. Sterman, "Bluetooth 1.1-Connect Without Cables", Prentice Hall Inc., Upper Saddle River, NJ 1002 (ISBN 0-13-066106-6), Sects. 5.4., pgs. 70-78
JA	15	D. J. Costello, Jr., et al., "Applications of Error-Control Coding", IEEE Transactions of Information Theory, October 1998, Vol. 44, pgs.2531-2560
JA	16	Walter Hirt, "Ultra-wideband radio technology: overview and future research", COMPUTER COMMUNICATIONS, Amsterdam, NL, vol. 26, no. 1, February 2003, pp. 46-52

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